Attorney's Docket: 2002DE442
Serial No.: 10/537.556
Art Unit 1621
Response to Office Action of 1/12/2007

This listing of claims will replace all prior versions, and listings of claims in the application:

- 1.(Currently Amended) A quaternary ammonium composition consisting essentially of
- a) a cationic compound with general formula:

$$R_1 - N - R_4 - X - R_3$$

wherein R_1 is C_8 - C_{22} -alkyl, C_8 - C_{22} -alkenyl, C_8 - C_{22} -alkylamidopropyl, C_8 - C_{22} -alkenyl-amidopropyl, C_8 - C_{22} -alkylalkenyl(poly)alkoxyalkyl, C_8 - C_{22} -alkanoylethyl or C_8 - C_{22} -alkenoylethyl, [[R_2 , R_3 and R_4]] R_2 and R_3 are C_1 - C_2 -alkyl, C_2 - C_{22} -alkenyl [[or]] and R_4 is a group of the formula -A-(OA)_n-OH, A is - C_2 H₄- and/or - C_3 H₈-, n is a number from 0 to 20 and X is an anion,

- b) less than 20 % by weight of water based on said composition and
- a non-ionic solvent selected from the group consisting of an alcohol or an ethoxylated alcohol with the general formula R-O-(AO)_nH, where R is alkyl or alkenyl group containing 8 to 22 carbon atoms, A is C₂H₄ or C₃H₆ and mixtures thereof, and n is a number from 0 to 20, nonylphenol or ethoxylated nonylphenol with the general formula C₉H₁₉-phenyl-O-(AO)_nH, where A and n are as defined above, and mixtures thereof.
- 2.(Previously Presented) The composition of claim 1, which contains 5 to 60 % by weight of the cationic compound a).

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3.(Previously Presented) The composition of claim 1, wherein the cationic compound a) is an C_8 - C_{22} -alkyl or C_8 - C_{22} -alkenyl-dimethyl-hydroxyethyl ammonium.

4.(Previously Presented) The composition of claim 1, which has 40 to 95 % by weight of the non-ionic solvent c).

5.(Previously Presented) The composition of claim 1, which has less than 5% of by-products.

6.(Currently Amended) The composition of claim 1, which the non-ionic solvent is selected from the group consisting of an ethoxylated fatty alcohol, a fatty alcohol, a polyethylene glycol, a polypropylene glycol, a block co-polymer of ethylene and propylene, a nonylphenol, [[a]] an ethoxylated nonylphenol, and a mixture thereof.

7.(Canceled)

8.(Currently Amended) A process for preparing a composition as claimed in claim 1

a quaternary ammonium composition consisting essentially of

a) a cationic compound with general formula:

$$R_1 - N - R_4 - X - R_3$$

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wherein R_1 is C_8 - C_{22} -alkyl, C_8 - C_{22} -alkenyl, C_8 - C_{22} -alkylamidopropyl, C_8 - C_{22} -alkenyl-amidopropyl, C_8 - C_{22} -alkyl/alkenyl(poly)alkoxyalkyl, C_8 - C_{22} -alkenyl-amidopropyl, C_8 - C_{22} -alkenyl-alkenyl-alkenyl-alkoxyalkyl, C_8 - C_{22} -alkenyl-alk

- b) less than 20 % by weight of water based on said composition and
- a non-ionic solvent selected from the group consisting of an alcohol or an ethoxylated alcohol with the general formula R-O-(AO)_nH, where R is alkyl or alkenyl group containing 8 to 22 carbon atoms, A is C₂H₄ or C₃H₆ and mixtures thereof, and n is a number from 0 to 20, nonylphenol or ethoxylated nonylphenol with the general formula C₉H₁₉-phenyl-O-(AO)_nH, where A and n are as defined above, and mixtures thereof.

wherein R_4 in the eationic compound a) is defined as a group of the formula Λ (OA), OH wherein Λ is $-G_2H_4$ or $-G_3H_6$, or a mixture thereof, and n is a number from 0 to 20

said process comprising:

reacting an amine of the formula

$$\begin{array}{c}
R_2 \\
 \\
R_1 - N \\
 \\
R_3
\end{array}$$

wherein R_1 is C_8 - C_{22} -alkyl, C_8 - C_{22} -alkenyl, C_8 - C_{22} -alkylamidopropyl, C_8 - C_{22} -alkenyl-amidopropyl, C_8 - C_{22} -alkyl/alkenyl(poly)alkoxyalkyl, C_8 - C_{22} -alkanoylethyl or C_8 - C_{22} -alkenyl or a group of the formula -A-alkenyl-amidopropyl, R_2 and R_3 are C_1 - C_{22} -alkyl, C_2 - C_{22} -alkenyl or a group of the formula -A-

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 $(OA)_n$ -OH, wherein A is $-C_2H_4$ - or $-C_3H_6$ -, or a mixture thereof, and n is a number from 0 to 20 with an inorganic monohalo acid and [[than]] then reacting the ammonium salt thus obtained with ethylene oxide [[and/or]] or propylene oxide or a mixture thereof.

- 9.(Currently Amended) The process of claim [[7]] $\underline{8}$, wherein the amine is C_8 - C_{22} -alkyl or C_8 - C_{22} -alkenyl-dimethyl amine, or mixtures thereof.
- 10.(Previously Presented) The process of claim 8, wherein the monohalo acid is aqueous, hydrochloric acid.
- 11.(Previously Presented) The process of claim 8, wherein the ammonium salt is reacted with ethylene oxide.
- 12.(Previously Presented) The process of claim 8, wherein the non ionic solvent is a $C_{12}/C_{14}/C_{16}$ alcohol polyglycol having 7 EO units.
- 13.(Previously Presented) The process of claim 8, wherein the first step is proceed in a temperature between 20 and 100°C.
- 14.(Previously Presented) The process of claim 8, wherein the second step is proceeded in a temperature between 40 and 100°C.

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15.(Previously Presented) The process of claim 8, wherein the amine is C_8 - C_{22} -alkyl or C_8 - C_{22} -alkenyl-dimethyl amine, or mixtures thereof.